

EC CERTIFICATE TYPE EXAMINATION (MODULE B)

This is to certify that:

DNV GL SE, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No. **42 499 - 16 HH**

Applicant **Beijing Highlander Digital Technology Co., Ltd.**

**Tsinghua Science Park C 1902, Haidian District
100084 Beijing, P.R. CHINA**

Product Description **Heading Control System**

Product Name **HLD-SC600**

Trade Name **HLD-SC600**

Specified Standards **IMO Res. A.342(IX), A.694(17), MSC64(67) Annex 3, MSC.191(79),
ISO 11674(2006), IEC 60945 (2002) incl. Corr. 1(2008), IEC 61162-
1 (2010), IEC 62288 (2014).**

Related Directive **2014/93/EU**

Equipment Section **Navigation equipment**

Annex A.1 Item No. **A.1/4.16**

Date of Issue **2016-03-30**

Expiry Date **2021-03-29**

DNV GL SE

Notified Body No.: 0098




Christine Mydlak-Röder

Certificate No: 42 499 - 16 HH

Date of Issue: 2016-03-30

Schedule of Approval

Approval Documentation

Test report : 9049 15 66474_HLD-SC600_Rev.1, 9049 15 66474 62288 Rev.1, A15-070-WT, HLD151223

Technical Data

The Heading Control System (HCS) HLD-SC600 consists of the following equipment necessary for the heading control function:

Automatic Control Unit:	Type: HLD-ACU600	Software Ver. 1.x
Alarm Display Unit:	Type: HLD-ADU600	Software Ver. 1.x

Additional equipment

The manual steering gear control system HLD-SC600 consists of the following equipment necessary for Manual Control function:

Follow-Up Unit:	Type: HLD-FU200	Software Ver. 1.x
Alarm Display Unit:	Type: HLD-ADU600	Software Ver. 1.x
Steering Control Unit:	Type: HLD-SCU600	Software Ver. 1.x
Rudder Feedback Unit:	Type: HLD-RFU600 or HLD-RFU200	Software Ver. 1.x Software Ver. 1.x
Lever Drive System:	Type: HLD-LD600 or HLD-LD200	
Relay:	Type: HLD- RE200	
Steering Mode Selector Switch:	Type: HLD-SW200	
Non-Follow-up Unit:	Type: HLD-NFUV200	
Steering Connection Terminal Strip:	Type: HLD-SCT600	

Optional equipment

For the manual Steering gear control system the following components may be also used:

Remote Control Link Unit:	Type: HLD-RRU600	Software Ver. 1.x
Mini Follow-Up Unit:	Type: HLD-SFU600	Software Ver. 1.x
External Steering Interface Unit:	Type: HLD-ESIU600	Software Ver. 1.x
Steering Repeater Compass:	Type: HLD-RP200	Software Ver. 1.x

For the use with type approved gyro compass equipment with standard IEC 61162-1 outputs

Steering gear Pump On/Off Switch:	Type: HLD-RPS200
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Documentation:	
Service Manual:	HLD0700FW V1.x
Operation Manual:	HLD0700SS2 V1.x
Installation Manual:	HLD0700AZ V1.x

Remarks

none

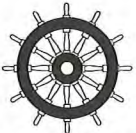
Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE, as the Notified Body, of any modifications or changes to the approved equipment. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

An U.S. Coast Guard approval number will be assigned to the equipment when the production module

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has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th 2004.



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body.

Limitations on the acceptance or use of the product

None